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Published to advance the Science of cold-blooded vertebrates

DESCRIPTION OF A THUNNUS BELIEVED TO BE NEW

By Louis L. Mowbray

Thunnus allisoni, new species

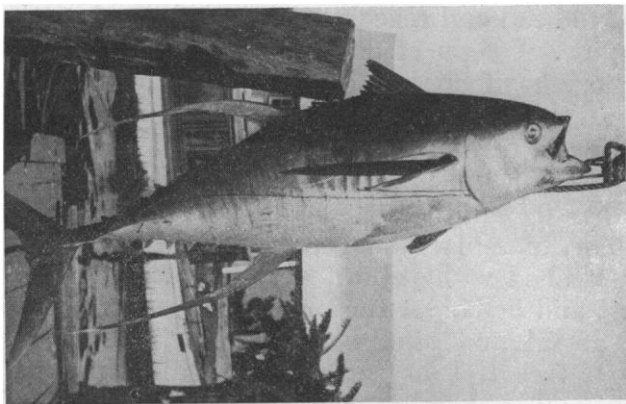
Head $3\frac{7}{8}$; depth $3\frac{1}{2}$. D. XIV-I, 11-IX; A. I, 11-IX.

Snout $2\frac{3}{4}$ in head; eye 3 in snout, 7 in head. Base of soft dorsal $1\frac{5}{8}$ in first dorsal spine; first dorsal spine a little less than 2 in head. Base of soft dorsal $5\frac{1}{2}$ in its height; its tip extends back to the ninth finlet; the anal extremely long, reaching to vertical through middle of caudal lobe; pectoral long, nearly equal to head and reaching vertical through 14th dorsal spine. Origin of dorsal, pectoral and ventrals in line; origin of anal in line of middle of soft dorsal. Gill-rakers 9 + 21. Teeth conical in both jaws, about 37 in each, turned inward; vomer and palatines with teeth. Keel 3 in upper caudal lobe, its width a little less than its length.

Color, blue-black above, sides and under parts silvery washed with yellow, especially on the opercles, breast and belly. Anterior and posterior margins of soft dorsal and anal bright yellow, the interspace dusky; free tips of posterior dorsal spines yellow; dorsal and anal finlets very bright yellow with a narrow, black edge. Ventrals silvery on outer side, yellow and dusky on inner side. Spinous dorsal, pectorals and caudal blue-black.

This species, of which three have been taken, differs from *T. thynnus* in its greater depth, larger head, longer pectorals, and the extreme length of the soft dorsal and anal rays, those of the anal reaching the vertical through the middle of caudal lobes, and the dorsal rays reaching the ninth finlet. Other characters are as in *T. thynnus*.* This description was made from a specimen taken in 6 feet of water by spearing at night in Biscayne Bay, Miami, Florida. Another was taken in the Gulf Stream, Jan. 18, 1920, and a third on the 24th, but badly torn by sharks before landing. The remaining portion agreed with the above description. The first fish was a little larger. The following length and weight are taken from the second specimen: length, 5 feet 9 inches; weight, 143 pounds; girth, 40 inches. The third specimen weighed 135 pounds and also agreed with the above. The species is named in honor of Mr. James A. Allison of Indianapolis, Ind., whose interest is shown by his erection of an Aquarium and Biological Station at Miami, Florida.

**Thunnus* (Germo) *macropterus* of Japan and the Pacific is most like *Thunnus allisoni*.—Ed.



Thynnus allisoni